

## Ford County

### Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/26/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 25 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Ford County economy.<sup>1</sup>

These 25 sectors have a total direct output of approximately **\$4.52 billion** and support **7,058 jobs** in Ford County. Running the model for all 25 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Ford County Economy					
Contribution Type <sup>2</sup>	Employment	% Employment	Total Value Added <sup>3</sup>	Total Value Added % of Gross Regional Product <sup>4</sup>	Output <sup>5</sup>
Direct Effect	7058.2	31.19%	\$794,200,602	42.17%	\$4,525,565,608
Indirect Effect	1879.4	8.31%	\$161,138,310	8.56%	\$343,885,385
Induced Effect	1862.4	8.23%	\$123,700,319	6.57%	\$230,437,379
<b>Total Effect</b>	<b>10800.0</b>	<b>47.73%</b>	<b>\$1,079,039,231</b>	<b>57.30%</b>	<b>\$5,099,888,371</b>

As shown in the above table, agriculture, food, and food processing sectors support **10,800 jobs**, or **47.73%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 25 agriculture, food, and food processing sectors is approximately **\$1.08 billion**, or **57.30% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

<sup>1</sup> Article on building a contribution analysis in IMPLAN that avoids double counting:

<https://implanhelp.zendesk.com/hc/en-us/articles/115002801513-Considerations-of-Contribution-Analysis>

<sup>2</sup> Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

<sup>3</sup> Value added = labor income + indirect business taxes + other property type income.

<sup>4</sup> GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

<sup>5</sup> Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the animal, except poultry, slaughtering sector is the top employer with **5,590 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Ford County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Animal, except poultry, slaughtering	5,590.3	\$3,849,385,534
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	702.6	\$238,365,850
Wholesale trade	381.9	\$82,153,976
Truck transportation	309.7	\$46,718,659
Farm machinery and equipment manufacturing	230.4	\$86,376,503
Limited-service restaurants	210.6	\$17,112,656
Full-service restaurants	177.7	\$8,046,130
Services to buildings	136.2	\$7,880,153
Real estate	112.4	\$15,204,244
Nitrogenous fertilizer manufacturing	96.2	\$103,366,724

The animal, except poultry, slaughtering sector directly contributes approximately **\$3.85 billion** to the Ford County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Animal, except poultry, slaughtering	5,590.3	\$3,849,385,534
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	702.6	\$238,365,850
Nitrogenous fertilizer manufacturing	96.2	\$103,366,724
Other animal food manufacturing	77.5	\$98,175,996
Farm machinery and equipment manufacturing	230.4	\$86,376,503
Grain farming	85.4	\$82,630,142
Wholesale trade	381.9	\$82,153,976
Flour milling	53.1	\$64,174,630
Truck transportation	309.7	\$46,718,659
Owner-occupied dwellings	0.0	\$37,282,983

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Ford County economy.

<b>All Agriculture, Food, and Food Processing Sectors</b>		
<b>Sector</b>	<b>Total Employment</b>	<b>Total Output</b>
Oilseed farming	3.3	\$8,715,612.41
Grain farming	85.4	\$82,630,142.21
Vegetable and melon farming	1.0	\$240,024.72
Fruit farming	0.3	\$29,800.81
Greenhouse, nursery, and floriculture production	4.2	\$675,122.26
Cotton farming	3.1	\$915,891.59
All other crop farming	22.0	\$4,396,564.96
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	702.6	\$238,365,844.73
Poultry and egg production	0.0	\$43,220.48
Animal production, except cattle and poultry and eggs	20.1	\$5,408,463.48
Commercial logging	1.8	\$46,304.01
Commercial hunting and trapping	1.7	\$33,197.50
Support activities for agriculture and forestry	92.5	\$5,811,245.92
Other animal food manufacturing	77.5	\$98,175,994.87
Flour milling	53.1	\$64,174,629.21
Animal, except poultry, slaughtering	5516.7	\$3,797,586,669.92
Bread and bakery product, except frozen, manufacturing	20.0	\$2,370,980.26
Frozen cakes and other pastries manufacturing	1.2	\$193,050.22
Tortilla manufacturing	4.6	\$1,228,228.81
Breweries	23.3	\$9,200,616.84
Distilleries	10.9	\$9,932,884.22
Nitrogenous fertilizer manufacturing	96.2	\$103,366,722.11
Farm machinery and equipment manufacturing	230.4	\$86,376,502.99
Veterinary services	41.0	\$3,703,045.37
Landscape and horticultural services	45.5	\$1,944,984.08

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Ford County, the retail sector was omitted.